

*SEL Table of Contents*

<b>Section Number</b>	<b>Category</b>	<b>Title</b>	<b>Page Number</b>
<b>Foreword</b>			<b>94</b>
<b>01</b>	<b>Personal Protective Equipment</b>		<b>97</b>
01	AR	Respiratory Protection Equipment	111
01	CB	NFPA 1994 CBRN Terrorism Protective Ensembles	123
01	EM	NFPA 1999 Protective Clothing (Emergency Medical Services)	127
01	LE	Tactical Law Enforcement Protective Equipment	131
01	PC	NFPA 1971 Ensembles (Proximity Fire Fighting with Optional CBRN Protection)	133
01	PF	NFPA 1971 Ensembles (Proximity Fire Fighting)	135
01	SC	NFPA 1971 Ensembles (Structural Fire Fighting with Optional CBRN Protection)	139
01	SF	NFPA 1971 Ensembles (Structural Fire Fighting)	141
01	SP	NFPA 1992 Splash-Protective Ensembles and Items	147
01	UC	NFPA 1951 CBRN Technical Rescue Protective Ensemble	152
01	UR	NFPA 1951 Rescue and Recovery Technical Rescue Protective Ensemble	153
01	UT	NFPA 1951 Utility Technical Rescue Protective Ensemble	159
01	VF	NFPA 1991 Ensembles with Optional Flash Fire Protection	164
01	VT	NFPA 1991 Ensembles	168
01	WA	Water Operations PPE	171
01	ZA	PPE Accessories	188
01	ZP	Ancillary Equipment	195
<b>02</b>	<b>Explosive Device Mitigation and Remediation Equipment</b>		<b>197</b>
02	EX	Equipment	199
02	PE	Protective Ensembles	203
<b>03</b>	<b>CBRNE Operational and Search &amp; Rescue Equipment</b>		<b>207</b>
03	OE	Operational Equipment	209
03	SR	Search & Rescue Equipment	220
03	WA	Water Operational & Search/Rescue Equipment	225
<b>04</b>	<b>Information Technology</b>		<b>230</b>
04	AP	Application Systems and Software	232
04	HW	Hardware	238
04	MD	Media Devices	244
04	SN	Sensor Devices	246
04	SW	System and Networking Software	247

<b>Section Number</b>	<b>Category</b>	<b>Title</b>	<b>Page Number</b>
<b>05</b>	<b>Cyber Security Enhancement Equipment</b>		<b>250</b>
05	AU	Authentication Devices	256
05	EN	Encryption	256
05	HS	Host Level Security	257
05	NP	Network Level Security	259
05	PM	Patch and Configuration Management	260
<b>06</b>	<b>Interoperable Communications Equipment</b>		<b>261</b>
06	CC	Commercial	263
06	CP	Private	267
<b>07</b>	<b>Detection</b>		<b>274</b>
07	BD	Biological Detection	277
07	BS	Biological Support	278
07	CD	Chemical Detection	279
07	CS	Chemical Support	288
07	ED	Explosive Detection	288
07	RD	Radiological Detection	290
07	RS	Radiological Support	293
07	SE	Support Equipment	293
<b>08</b>	<b>Decontamination</b>		<b>295</b>
08	D1	Individual Decontamination	297
08	D2	Active Decontamination	297
08	D3	Post-Decontamination	302
<b>09</b>	<b>Medical</b>		<b>304</b>
09	ME	Medical Equipment	308
09	MS	Medical Supplies	319
09	PH	Pharmaceuticals	330
09	TR	Training	345
<b>10</b>	<b>Power</b>		<b>347</b>
10	BC	Batteries and Power Cells	348
10	GE	Generators	348
10	PE	Other Power-Related Equipment	349

*SEL Table of Contents*

<b>Section Number</b>	<b>Category</b>	<b>Title</b>	<b>Page Number</b>
<b>11</b>	<b>CBRNE Reference Materials</b>		<b>351</b>
11	FR	Field Expedient References	352
11	RD	Reference Databases	359
11	RE	References	361
<b>12</b>	<b>CBRNE Incident Response Vehicles</b>		<b>368</b>
12	TR	Trailers	369
12	VE	Vehicles	369
<b>13</b>	<b>Terrorism Incident Prevention Equipment</b>		<b>372</b>
13	IT	Information Technology	373
13	LE	Law Enforcement Equipment	374
<b>14</b>	<b>Physical Security Enhancement Equipment</b>		<b>375</b>
14	EX	Explosion Protection	376
14	SW	Surveillance, Warning, Access/Intrusion Control	376
<b>15</b>	<b>Inspection and Screening Systems</b>		<b>381</b>
15	IN	Inspection Systems	382
15	SC	Screening Systems	382
<b>16</b>	<b>Reserved</b>		<b>383</b>
<b>17</b>	<b>CBRNE Prevention and Response Watercraft</b>		<b>384</b>
17	WC	Watercraft	385
<b>18</b>	<b>CBRNE Aviation Equipment</b>		<b>387</b>
18	AC	Aircraft	388
<b>19</b>	<b>CBRNE Logistical Support Equipment</b>		<b>390</b>
19	GN	General	391
19	MH	Material Handling Equipment	394
19	SS	Shelter Systems	396

Section Number	Category	Title	Page Number
20		<b>Intervention Equipment</b>	<b>397</b>
20	FP	Fingerprint Processing and Identification	398
20	TE	Tactical Entry Equipment	398
21		<b>Other Authorized Equipment</b>	<b>399</b>
21	GN	General	400
		<b>Standards List</b>	<b>401</b>

## Section 10 - Power

### Overview

Early editions of the SEL included multiple references to power-related items such as batteries and generators throughout the various sections. This section was created to consolidate those references and eliminate redundancy. By maintaining a unique section for power, the IAB hopes to remind readers that the availability of power is a significant consideration in planning across all areas.

The Power section includes only three sub-sections: Batteries and Power Cells, Generators, and Other Power-Related Equipment. Its inclusion as a separate section should increase awareness of power requirements as the number and type of electronic equipment items continues to increase in virtually every section of the SEL. Readers are encouraged to look across the applicable items in other SEL sections and consider the requirements for batteries (number, type, service life, shelf life, etc.), generators, power filtering equipment, and other power-related items without which critical equipment will cease to function.

In the aftermath of disasters such as Hurricane Katrina and the recent Midwest (Saint Louis) ice/wind storms, one of the salient lessons learned was the difficulty of recharging batteries in an environment characterized by widespread power outages. As a result, many response organizations are mandating that some critical equipment be capable of using commercially available disposable batteries either as a primary or alternate power source (e.g., an alkaline battery pack that can be used in place of a rechargeable NiCad battery). Where applicable, comments regarding the need for special power requirements such as custom batteries will be noted in the Operating Considerations field of equipment in other SEL sections.

One particularly noteworthy issue has been mentioned here in past versions of the SEL, and unfortunately still requires reinforcement. Readers are encouraged to emphasize generator safety and recognize the dangers of carbon monoxide poisoning and electrocution to the general public during disasters that cause power outages. Every year, and despite multiple warnings, many lives are lost due to individuals running generators in or near their homes. Carbon monoxide is an odorless and colorless gas that kills! Also, by inappropriately wiring generators directly into one's house (instead of plugging appliances into the generator), severe injuries/fires/damage can occur when power is restored.

### Online Selection Factors

No online selection factors have been provided for this section. The applicability of the power requirement will be determined by the type and location of the equipment items being powered.

**Section 10 | Power**

Item Number/Title	Description	Features/Operating Considerations	Standards <sup>1</sup>
<b>BC - Batteries and Power Cells</b>			
10BC-00-BATT Batteries, All Types, Sizes	Batteries for all recommended equipment. Types including, but not limited to Alkaline, Nickel-Cadmium (NICAD), Nickel Metal Hydride (NiMH), Lithium (Li-Ion). Form factors such as AA, AAA, C and D cells, 9-Volt, Clamshell.	Disposable or rechargeable. Intrinsically safe batteries required for explosive environments. ----- Shelf life. Recharge time if applicable. Disposal requirements. Life (charge/discharge) cycles.	
10BC-00-FCEL Cells, Fuel	Fuel Cells.		
10BC-00-SOLR Chargers	Including but not limited to solar, natural gas, shore power, etc.		
<b>GE - Generators</b>			
10GE-00-GENR Generators	Generators, varying types and sizes, including gasoline, diesel, propane, natural gas, alternator, gas turbine powered devices, etc.	Portable or fixed. ----- Examine load capacity. Regular testing. Automatic transfer switch. Carbon monoxide detector. Heavy duty outdoor rated extension cords. Approved fuel storage containers. →	

<sup>1</sup> Use numbers given to refer to Standards List at the end of this document.

Section 10 | Power

Item Number/Title	Description	Features/Operating Considerations	Standards <sup>1</sup>
<b>GE - Generators</b> 00 - <i>Continued</i>			
<b>PE - Other Power-Related Equipment</b>			
10PE-00-BCON Conditioners, Battery	Battery conditioners.	Indicators showing current battery status. ----- Pulse chargers. Number of charging ports. Ability to keep track of individual batteries.	
10PE-00-INV Inverters	Equipment for DC to AC conversion.		
10PE-00-PCDS System, Power Conditioning	Systems that provide protection against power spikes, surges, and momentary drops so that serviced equipment receives “clean” power.		
10PE-00-PTSW Switch, Power Transfer	Switch for power output transfer to support generator maintenance and fueling.	Employable with generator autostart for continuous operation and uninterrupted power flow.	123

<sup>1</sup> Use numbers given to refer to Standards List at the end of this document.

## Section 10 | Power

Item Number/Title	Description	Features/Operating Considerations	Standards <sup>1</sup>
<b>PE - Other Power-Related Equipment</b>			
00 - <i>Continued</i>			
10PE-00-RECT Rectifiers	Equipment for AC to DC conversion.		
10PE-00-REEL Reels, Electric Cord	Electric cord reels.	<p>Twist-lock connectors.</p> <p>-----</p> <p>Twist-lock connectors are advantageous during field operations to prevent accidental disconnection.</p> <p>Length and gauge are relative to expected current load.</p>	123
10PE-00-UPS Supply, Uninterruptible Power (UPS)	Systems that compensate for loss of power to serviced equipment for some period of time. May include short-duration battery devices, or standby generator devices for longer duration.	<p>-----</p> <p>Consider load/time relation.</p>	

<sup>1</sup> Use numbers given to refer to Standards List at the end of this document.